

	Type	L #	Hits	Search Text	DBs	Time Stamp
1	BRS	L1	1077	polyimide adj coating	USPAT	2003/04/17 14:13
2	BRS	L2	1700	210/198.2.ccls.	USPAT	2003/04/17 14:13
3	BRS	L3	15	1 and 2	USPAT	2003/04/17 14:13

	Comments	Error Definition	Errors
1			0
2			0
3			0

	U	1	Document ID	Issue Date	Pages
1	<input type="checkbox"/>	<input checked="" type="checkbox"/>	US 5938919 A	19990817	12
2	<input type="checkbox"/>	<input checked="" type="checkbox"/>	US 4293415 A	19811006	6
3	<input type="checkbox"/>	<input checked="" type="checkbox"/>	US 5135627 A	19920804	9

	Title	Current OR	Current XRef
1	Fused silica capillary columns protected by flexible shielding	210/198.2	210/656; 96/101
2	Silica chromatographic column	210/198.2	138/140; 138/141; 138/143; 138/145; 138/146; 138/177; 65/DIG.8; 96/101
3	Mosaic microcolumns, slabs, and separation media for electrophoresis and chromatography	204/455	204/458; 204/466; 204/470; 210/198.2; 210/635; 428/327

	Retrieval Classif	Inventor	S	C	P	2	3	4	5
1		Najafabadi, Bijan Modrek	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
2		Bente, III, Paul F. et al.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
3		Soane, David S.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

	Image Doc. Displayed	PT
1	US 5938919	<input type="checkbox"/>
2	US 4293415	<input type="checkbox"/>
3	US 5135627	<input type="checkbox"/>

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1	1077	polyimide adj coating	USPAT	2003/04/17 14:13
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3	15	(polyimide adj coating) and 210/198.2.ccls.	USPAT	2003/04/17 14:13

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2	1700	210/198.2.ccls.	USPAT	2003/04/17 14:13
3	15	(polyimide adj coating) and 210/198.2.ccls.	USPAT	2003/04/17 14:13



Current US Original Classification - CCOR (1):

210/198.2

US-PAT-NO: 5938919  
DOCUMENT-IDENTIFIER: US 5938919 A  
TITLE: Fused silica capillary columns  
protected by flexible shielding  
DATE-ISSUED: August 17, 1999  
US-CL-CURRENT: 210/198.2, 210/656 , 96/101  
APPL-NO: 08/ 859349  
DATE FILED: May 20, 1997  
PARENT-CASE:

This application is a continuation of U.S. patent application Ser. No. 08/577,270, filed Dec. 22, 1995, now abandoned.

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Detailed Description Text - DETX (23):

In the shielded column 110, the capillary 112 advantageously has a polyimide coating because an uncoated capillary 112' can easily break as it is slip-fitted into the shield tubing 114. A commercially available capillary 112 is coated with a polyimide layer that covers the external surface of the capillary 112 and has a thickness of about 1 .mu.m. It is, however, feasible to use an uncoated capillary 112' if the shield tubing 114 is molded onto the uncoated capillary 112', or if the tubing 114 and uncoated capillary 112' are extruded at the same time. There is substantially less handling of the

capillary 112' involved in molding or simultaneous  
extrusion than in producing  
a slip fit.

Current US Original Classification - CCOR (1):

210/198.2

US-PAT-NO: 4293415  
DOCUMENT-IDENTIFIER: US 4293415 A  
TITLE: Silica chromatographic column  
DATE-ISSUED: October 6, 1981

US-CL-CURRENT: 210/198.2, 138/140 , 138/141 , 138/143 ,  
138/145 , 138/146  
                  , 138/177 , 65/DIG.8 , 96/101

APPL-NO: 06/ 034103

DATE FILED: April 27, 1979

----- KWIC -----

Detailed Description Text - DETX (5):

The inner diameter of the silica tubes T is determined by chromatographic considerations and will generally be between 0.1 mm. and 0.4 mm. The outer diameter should be sufficiently small to provide the desired flexibility and consequent ruggedness without making the wall of the tube so thin that it will be crushed in use. Outer diameters between 0.15 mm. and 2.0 mm. have been found satisfactory. Polyimide coatings P having a thickness of approximately 0.05 mm. and silicon nitride coatings SN having a thickness of approximately 20 nanometers have been found satisfactory, but considerable latitude is permissible. A metal coating of approximately 0.025 mm. is useful. If the column is to be used at lower temperatures such as 250.degree. C., a single coating of silicone rubber or the equivalent is satisfactory.



Current US Cross Reference Classification - CCXR (4):

210/198.2